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**Questions to Go Along with the Unit 8 Notes, Part 3 – Cell Cycle Regulation**

Ms. OK, AP Biology, 2014-2015

1. Why might the G1 checkpoint be the most important in regulating the cell cycle?
2. If the cell “notices” that not all the chromosomes are attached to spindle fibers, what happens? What checkpoint does this relate to?
3. What is the only situation where mature liver cells will exit the G0 state?
4. If cyclin cannot accumulate during interphase, how will this affect the activity of cyclin-dependent kinases?
5. What types of proteins does MPF phosphorylate (i.e. activate) to initiate the beginning of mitosis?
6. If PDGF’s are not released by platelet blood cells after an injury, how will this affect healing? (Use the term fibroblasts in your answer.)
7. How does MPF end cell division?
8. Describe two ways in which cancer cell division differs from normal cell division.
9. Explain how metastasis and angiogenesis relate to one another.
10. How is a benign tumor different from a malignant tumor?
11. What types of cells are “targeted” by chemotherapy drugs? Why do people experience hair loss during chemotherapy?
12. Why is Taxol effective in slowing down cell division?